

# **[ Multi-point subsurface measurement calibration ]**

## **Abstract of Disclosure**

Techniques for calibrating well-logging sensors comprising emitting a first signal into a first calibration substance disposed proximate to the sensor, measuring a first sensor response from the first signal, emitting a second signal into a second calibration substance disposed proximate to the sensor, measuring a second sensor response from the second signal, and determining a sensor response function from the first sensor response and the second sensor response. One embodiment includes providing a well-logging sensor having a known response function, determining an expected range of a quality check response of the sensor using a quality-check substance with known properties, emitting a quality check signal into the quality-check substance, measuring the quality check response from the quality check signal, and comparing the expected range with the quality check response.

## Figures